

## **CITY OF KIRKLAND**

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### **DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY**

#### **Policy R-10: STREET TREE SELECTION LIST, AND PLANTING AND PRUNING PROCEDURES**

Attached is the City of Kirkland's street tree selection list and planting and pruning procedures. This policy shall be adhered to when planting and pruning street trees in the public right-of-way.



## STREET TREE SELECTION LIST, AND PLANTING & PRUNING PROCEDURES

### PLANT APPLICATION & PLANTING PROCEDURES:

The City of Kirkland requires the planting and maintenance of trees along public streets. An adjacent property owner or tenant may plant a tree in a street-planting strip or near the road subject to City review and approval of the type of tree and the planting location. Contact the Public Works Department at 425-587-3800 for an application. After you receive approval to plant, you will be responsible for properly planting and maintaining the tree. This includes watering during the drier seasons, mulching, and pruning.

When private contractors, developers, and property owners are required to plant street trees as part of a private development or redevelopment project, standards of tree selection, location, planting, and a two-year maintenance bond are required.

Besides selecting a tree for aesthetics, please consider the following before you choose a tree and plant it:

- 1) In most cases, the planting of trees is required only when there is a curbed roadway and a minimum 4.5 foot wide planting strip.
- 2) Trees must be planted to the following standards:
  - a) A minimum of 18 inches back from the face of the curb.
  - b) 5 feet from underground utility lines if possible.
  - c) 20 feet from street lights or other existing trees.
  - d) 30 feet from most street intersections — 50 feet if it has a stop sign.
  - e) **Before planting, you MUST call 72 hours in advance for underground utility locations. This is a toll free call @ 1-800-424-5555.** They will mark your planting strip for the location of your water, electric, gas, and power lines. Knowing these locations in advance may save you time and money by preventing an accident.
  - f) Unless automatic irrigation is provided, trees must be planted between October and February.
  - g) Deciduous trees shall be a minimum 2-inch caliper when planted. Conifer trees shall be a minimum of 6 to 8 feet tall when planted.
  - h) Conifer trees are approved on a case-by-case basis. Safety and impact on maintenance workload will be primary considerations. Conifer trees are never allowed in center medians.
  - i) For newly planted street trees there should be no branching from the trunk below 5 feet from the ground or walk provided that the branches do not encroach into the sidewalk or street.
  - j) Trees that are naturally resistant to pests and produce little fruits are required.

### **TREE SELECTION:**

This document refers to trees on public rights-of-way only.

Refer to the "Recommended Kirkland Street Tree Planting List" below for a listing of trees generally recommended for planting within the planting strip area. This list includes a variety of tree shapes and sizes that can be utilized in a variety of circumstances. Please be aware that this list concentrates on hardy and readily available tree species in the Kirkland area. Also, be aware that current industry belief is that species diversity is a major key to a healthy community/urban forest. It is now recommended that no one species account for more than 8% of the total number of trees in the forest. Therefore, certain trees may not be considered appropriate due to an existing overabundance of that species in a certain part of town. Contact the City of Kirkland Street Department at 425-587-3900 for details. (Specific tree species that are limited in certain neighborhoods include: Norway Maple, Crimson King Maple, Red Maple, Pin Oak, Sweetgum.)

Also please be aware that the list is updated every two years. Tree species may be added or removed from the list as information becomes available. This means that tree species you may see in and around Kirkland are no longer permitted to be planted. Or it may mean that certain species of trees were not readily available at the last review of the list. If there is a particular tree you are interested in that is not on the list, and is also not on the "Trees Not Recommended or Not Permitted along Kirkland Streets" below, you may provide the name of the tree and information for the City to consider with your application. The request and information will be reviewed in relation to the other demands of the right of way. You will then be informed of the decision.

When planting trees under utility lines, choose only small-scale trees that will remain small when mature.

Planting widths: The City Code requires that trees be planted 30 feet on center.

There is no need to meet a City staff representative on site. If you have specific concerns, you may note them on the planting application. Be specific and the City will address your concerns. If you have any questions you may call 425-587-3225 and talk with the permit technician. Staff will consider alternative species proposed on a case-by-case basis. If you are requesting permission to plant a tree species not on this list please provide information about the tree's growth habit, mature size, disease and insect resistance, and any other pertinent information that supports the inclusion of the tree.

### **PROHIBITED STREET TREES FOR THE CITY OF KIRKLAND:**

City of Kirkland Code allows the City to prohibit the following trees from being planted on public rights-of-way. The trees may not be planted closer than the listed minimum planting distance to streets or sewers:

<u>SPECIES:</u>	<u>MINIMUM PLANTING DISTANCE:</u>
<i>Populus trichocarpa</i> , Black Cottonwood	40'
<i>Populus deltoides</i> , Eastern Cottonwood	40'
<i>Populus nigra 'Italica'</i> , Lombardy Poplar	40'
<i>Ailanthus altissima</i> , Tree of Heaven	25'
<i>Salix sp.</i> , Willow trees	25'
<i>Ulmus americana</i> , American Elm	40'
Sycamore	40'
London Plane	40'
<i>Prunus sp.</i> , Cherry, stone fruits, etc (Malus, Crab Apple, WSU approved for western Washington only)	25'
<i>Alnus rubra</i> , Red Alder	25'
<i>Robinia pseudoacacia</i> , Black Locust	30'
<i>Pinus sp.</i> , any Pine trees	30'
Betula jacquemontii or nigra any Birch	Not Allowed

### **MAINTENANCE RESPONSIBILITY:**

Trees planted or growing naturally on City of Kirkland rights-of-way are property of the City and require a permit to prune, cut, or remove. All pruning and trimming is to be done to current standards adopted by the International Society of Arboriculture or the National Arborist Association. Trees are to be pruned 8 feet above sidewalks and 14 feet above roadways. Newly planted street trees may have branching 5 feet from the ground or walk provided that the branches do not encroach into the sidewalk or street. Current City policy is that it is the responsibility of the adjacent property owner to perform maintenance on the trees. Maintenance includes watering, feeding, mulching, and protecting a street tree to help achieve its mature size and full environmental function.

If you have any questions about maintenance or about caring for street trees you can call the Streets Maintenance Division at 425-587-3900.

### **TREE PRUNING AND REMOVAL:**

The pruning and removal of street trees and right-of-way trees is prohibited without a written permit from the City Department of Public Works obtained in advance. To request such a permit, contact Public Works at 425-587-3800 or use the website below:

<http://www.ci.kirkland.wa.us>

Under the **Most Requested** section, choose **Tree Regulations**.

Please note that not all trees may be readily available depending on time of planting.

### Small Columnar Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Maackia amurensis</i> Amur Maackia	30	20	Yes	5	white	
<i>Malus 'Adirondack'</i> Adirondack Crabapple	20	10	Yes	5	white	Fruiting
<i>Malus 'Red Baron'</i> Red Baron Crabapple	20	10	Yes	5	pink	Fruiting
<i>Malus 'Sentinel'</i> Sentinel Crabapple	20	12	Yes	4	pink	Fruiting

### Small Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Acer buergerianum</i> Trident Maple	30	30	Yes	5	N/A	Shrublike, must be trained to single stem
<i>Acer circinatum</i> Vine Maple	25	25	Yes	5	N/A	Native tree
<i>Acer ginnala</i> Flame Maple	25	20	Yes	5	white	
<i>Acer griseum</i> Paperbark Maple	30	20	Yes	5	N/A	Smooth, peeling, cinnamon colored bark
<i>Acer palmatum</i> Japanese Maple	20	25	Yes	5	N/A	Select larger varieties for street tree plantings
<i>Acer triflorum</i> Three-flower Maple	25	20	Yes	5	N/A	
<i>Amelanchier grandiflora 'Princess Diana'</i> Princess Diana Serviceberry	20	15	Yes	4	white	
<i>Amelanchier x grandiflora 'Autumn Brilliance'</i> Autumn Brilliance Serviceberry	20	15	Yes	4	white	
<i>Arbutus 'Marina'</i> Strawberry Tree	25	20	Yes	5	pink	
<i>Asimina triloba</i> Paw Paw	30	20	Yes	5	crimson	
<i>Carpinus japonica</i> Japanese Hornbeam	20	25	Yes	5	N/A	Wide spreading, slow growing
<i>Cercis canadensis</i> Eastern Redbud	25	30	Yes	5	pink	
<i>Cercis siliquastrum</i> Judas Tree	25	30	Yes	5	pink	Drought resistant
<i>Cornus alternifolia</i> Pagoda Dogwood	25	25	Yes	5	white	Varied fall color

## Small Trees (continued)

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Cornus kousa</i> Kousa Dogwood	20	20	Yes	4	white	Disease resistant, does not do well in dry areas
<i>Cotinus obovatus</i> American Smoke Tree	25	25	Yes	4	pink	
<i>Lagerstroemia</i> x ' <i>Tuscarora</i> ' Tuscarora Hybrid Crape Myrtle	20	20	Yes	4	pink	Drought resistant
<i>Magnolia</i> ' <i>Elizabeth</i> ' Elizabeth Magnolia	30	20	Yes	5	yellow	
<i>Magnolia</i> ' <i>Galaxy</i> ' Galaxy Magnolia	25	25	Yes	5	pink	
<i>Magnolia</i> x <i>loebneri</i> Loebneri Magnolia	20	20	Yes	5	white	
<i>Malus</i> ' <i>Golden Raindrops</i> ' Golden Raindrops Crabapple	20	20	Yes	5	white	Disease resistant
<i>Malus</i> ' <i>Donald Wyman</i> ' Donald Wyman Crabapple	25	25	Yes	5	white	
<i>Malus</i> ' <i>Lancelot</i> ' Lancelot Crabapple	15	15	Yes	4	white	Fruiting
<i>Parrotia persica</i> Persian Parrotia	30	20	No	5	red	Drought tolerant, red, orange, yellow fall colors
<i>Prunus</i> ' <i>Frankthrees</i> ' Mt. St. Helens Plum	20	20	Yes	5	pink	Burgundy leaves
<i>Prunus</i> ' <i>Newport</i> ' Newport Plum	20	20	Yes	5	pink	Burgundy leaves
<i>Prunus</i> ' <i>Snowgoose</i> ' Snow Goose Cherry	20	20	Yes	5	white	Disease resistant
<i>Stewartia monodelpha</i> Orange Bark Stewartia	30	20	Yes	5	white	
<i>Stewartia psuedocamellia</i> Japanese Stewartia	25	15	Yes	5	white	Avoid hot, dry areas
<i>Styrax obassia</i> Fragrant Styrax	25	20	Yes	5	white	

### Medium Columnar Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Acer platanoides</i> 'Columnar' Columnar Norway Maple	45	15	No	5	N/A	Do NOT plant within 1000' of greenbelt (Invasive in natural areas), does well close to buildings
<i>Carpinus betulus</i> 'Fastigiata' Pyramidal European Hornbeam	40	15	No	5	N/A	Broadens when older
<i>Malus</i> 'Tschonoski' Tschonoski Crabapple	30	15	Yes	5	white	Pyramidal, sparse fruit
<i>Oxydendron arboreum</i> Sourwood	35	12	No	5	white	Brilliant fall color
<i>Pyrus calleryana</i> 'Cambridge' Cambridge Pear	40	15	No	5	white	

### Medium Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Acer grandidentatum</i> 'Schmidt' Rocky Mountain Glow Maple	25	20	Yes	5	N/A	Red colors in fall
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Kiethsform' Norwegian Sunset Maple	35	25	No	5	N/A	Red/orange fall color
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrenred' Pacific Sunset Maple	30	25	Yes	5	N/A	
<i>Betula albosinensis</i> var. <i>septrionalis</i> Chinese Red Birch	40	35	No	5	N/A	White/pink peeling bark
<i>Carpinus caroliniana</i> American Hornbeam	25	20	Yes	5	N/A	Brilliant fall color
<i>Cladrastis kentukea</i> Yellowwood	40	40	No	5	white	Blooms only every 2 to 4 years, flowers are white in spring
<i>Cornus controversa</i> 'June Snow' Giant Dogwood	40	30	No	5	white	
<i>Cornus</i> 'Eddie's White Wonder' Eddie's White Wonder Dogwood	30	20	Yes	5	white	
<i>Cataegus crus-galli</i> 'Inermis' Thornless Cockspur Hawthorn	25	30	Yes	5	white	Red fruit
<i>Crataegus phaenopyrum</i> Washington Hawthorn	25	20	Yes	5	white	Do not plant in high use areas, large thorns
<i>Crataegus</i> x <i>lavalleyi</i> Lavalle Hawthorn	25	20	Yes	5	white	Thorns when trees are young
<i>Davidia involucrata</i> Dove Tree	40	30	No	5	white	Large flowers in May
<i>Halesia monticola</i> Carolina Silverbell	35	30	No	5	white	
<i>Koelreuteria paniculata</i> Goldenrain Tree	30	30	Yes	5	yellow	Slow growing
<i>Magnolia denudata</i> Yulan Magnolia	40	40	No	5	white	Fragrant flowers in spring

## Medium Trees (continued)

Scientific & Common Name	Mature Height	Spread	Under Wires?	Strip Width	Flower color	Comments
<i>Magnolia grandiflora</i> 'Victoria' Victoria Evergreen Magnolia	25	20	Yes	5	white	Evergreen
<i>Magnolia kobus</i> 'Wade's Memory' Wade's Memory Magnolia	30	20	Yes	5	white	Flowers don't emerge until tree is mature
<i>Ostrya virginiana</i> Ironwood, American hophornbeam	40	25	No	5	N/A	Slow growing
<i>Phellodendron amurense</i> 'Macho' Macho Cork Tree	40	40	No	5	N/A	
<i>Prunus cerasifera</i> 'Krauter Vesuvius' Vesuvius Flowering Plum	30	20	Yes	5	pink	Drought tolerant, fruitless
<i>Pterostyrax hispida</i> Fragrant Epaulette Tree	40	30	No	5	white	
<i>Pyrus calleryana</i> 'Aristocrat' Aristocrat Pear	40	30	No	5	white	
<i>Pyrus calleryana</i> 'Glen's Form' Chanticleer or Cleveland Select Pear	40	20	No	5	white	
<i>Pyrus calleryana</i> 'Redspire' Redspire Pear	35	25	No	5	white	
<i>Quercus ilex</i> Holly Oak	40	30	No	5	N/A	
<i>Rhamnus purshiana</i> Cascara	30	20	Yes	5	N/A	Native tree
<i>Robinia x ambigua</i> Pink Idaho Locust	35	25	No	5	purple	Drought tolerant
<i>Styrax japonica</i> Japanese Snowbell	25	25	Yes	5	white	
<i>Tilia cordata</i> 'DeGroot' DeGroot Littleleaf Linden	30	20	Yes	5	N/A	
<i>Ulmus parvifolia</i> 'Emer I' Athena Classic Elm	30	35	No	5	N/A	High resistance to Dutch Elm disease, drought resistant



## Medium/Large Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Minimum Strip Width	Flower color	Comments
<i>Acer campestre</i> Hedge Maple	50	30	No	5	N/A	Don't let the name fool you, this can get to be a large tree
<i>Acer campestre</i> 'Evelyn' Queen Elizabeth Hedge Maple	40	30	No	5	N/A	Upright branching
<i>Acer psuedoplatanus</i> 'Spaethii' Spaethii Sycamore Maple	40	30	No	5	N/A	Do NOT plant within 1000' of greenbelt (invasive in natural areas). Green leaves with purple underside
<i>Corylus columa</i> Turkish Filbert	40	25	No	5	N/A	Large amount of debris from nuts, not ideal for pedestrian paths
<i>Nothofagus antarctica</i> Antarctic Beech	50	35	No	5	N/A	
<i>Ulmus parvifolia</i> 'Emer ii' Allee Elm	45	35	No	5	N/A	Resistant to Dutch Elm disease, good fall color